

4720.5530 PUMPING TEST STANDARDS FOR SMALLER SIZED WATER SUPPLY SYSTEMS.

Subpart 1. **Applicability.** A pumping test must be conducted as specified in this part for public water supply systems not included under part 4720.5520, subpart 1.

Subp. 2. **Pumping capacity.** When a pumping test is conducted, the public water supply well must be pumped at its maximum obtainable capacity.

Subp. 3. **Pumping discharge rate.** The pumping discharge rate must be held to within ten percent of the discharge rate selected for the test.

Subp. 4. **Water level measurement.** The water level measurements must be recorded in units of one-hundredths of a foot.

Subp. 5. **Total volume of water measurement.** The total volume of water pumped during the pumping phase of the test must be recorded as the total gallons pumped.

Subp. 6. **Pumping test length.** The length of the pumping test must be as long as allowed by the:

- A. capability of the pump;
- B. capacity of the water reservoirs;
- C. capacity of the water distribution system; and
- D. capability to dispose of excess discharge water.

Subp. 7. **Frequency of readings.** Water levels must be measured for the duration of the test, and with sufficient frequency to characterize the drawdown versus time response in each of the time intervals specified in part 4720.5520, subpart 8 for a confined aquifer setting, or subpart 9 for an unconfined aquifer setting.

Subp. 8. **Recording; start and finish.** The date and time of the start and the finish of the pumping test must be recorded to the second.

Subp. 9. **Recording and submittal requirements.** Pumping test data must be recorded and submitted to the department on forms or electronic data file templates provided by the department.

Statutory Authority: *MS s 103I.101*

History: *22 SR 668*

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